

CLASSIFIED MESSAGE

UNIT : NPIC/TSSG/AFSD/122
 EXT :
 DATE : 26 FEB 70

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FROM:

CONF:

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1970 MAR 3 21 17Z

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	X	ROUTINE	OPERATIONAL IMMEDIATE	INITIALS

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OUT 69455

TO

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CITE NPIC

8095

SAC OFFUTT AFB OMAHA NEBRASKA
 544TH ARTW, OFFUTT AFB OMAHA NEBRASKA
 548TH RTG, HICKAM AFB, HAWAII
 480TH RTG, LANGLEY AFB, VIRGINIA
 DIAXX-2
 HQ USAF
 WARNER ROBINS AFB GA FOR WRAMA/WRNWA
 HQ USAF FOR AFIGOS, AFXOTR, AFNICAD, AFRDRM
 SAC FOR DIRI, DOSR, DISD

COORDINATING OFFICERS

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CHIEF, NPIC/TSSG/AFSD
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CLASSIFIED MESSAGE

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SUBJECT: EVALUATION OF GIANT NAIL MISSIONS T-145, T-147, T-148,
T-151, T-152, T-153, T-154 AND T-155.

1. IMAGE QUALITY: THE OVERALL IMAGE QUALITY OF THESE MISSIONS WITH THE EXCEPTION OF MSN T-152 IS FAIR WITH INSTANCES OF GOOD IMAGERY. THE MAJOR DEGRADING FACTOR APPEARS TO BE IMAGE MOTION CAUSED BY VEHICLE VIBRATION. IN ADDITION, INSTANCES OF SCAN DIRECTION IMAGE SMEAR WERE NOTED. THESE DEGRADATIONS ARE MOST APPARENT AT MAGNIFICATIONS OF 25X AND ABOVE. THE INTERPRETATION SUITABILITY OF THESE MISSIONS WITH THE EXCEPTION OF T-152 AND T-155 IS GOOD. THE INTERPRETATION SUITABILITY OF T-155 IS FAIR, DUE TO THE LOW CONTRAST AND THIN DENSITY OF THE ORIGINAL NEGATIVE (SEE PARA 6B). THE IMAGE QUALITY OF T-152 IS GOOD THROUGHOUT THE MISSION WITH INSTANCES OF EXCELLENT IMAGERY. MAGNIFICATIONS OF UP TO 50X ARE POSSIBLE. THE INTERPRETATION SUITABILITY IS GOOD TO EXCELLENT. IT SHOULD BE NOTED THAT MISSION T-152 USED A WRATTEN 23A FILTER. ALL OTHER MISSIONS USED A WRATTEN 15.

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2. MISSION DATA SUMMARY

MISSION	DATE FLOWN	CAMERA NO	A/C NO	T/O TIME Z	C/O TIME Z
T-145	7 Dec 69	8012	340	0100	0303
T-147	12 Dec 69	8012	340	0340	0547
T-148	13 Dec 69	8010	340	0215	0414
T-151	31 Dec 69	8010	340	0424	0627
T-152	6 Jan 70	8012	340	0005	0250
T-153	9 Jan 70	8010	340	2340	0139
T-154	15 Jan 70	8012	334	0352	0552
T-155	18 Jan 70	8012	334	0130	0331

MISSION	CHEM/GAMMA	PROCESS FAC/RTG	WRATTEN FILTER	CAMERA MALFUNCTION	TITLED PROPERLY
T-145	UNK	UNK	15	NO	YES
T-147	MX578/2.57	548TH	15	YES	NO
T-148	MX578/2.50	548TH	15	YES	NO
T0151	MX578/2.58	548TH	15	YES	NO
T-152	MX578/2.50	548TH	23A	NO	YES

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MISSION	CHEM/GAMMA	PROCESS FAC/RTG	WRITTEN FILTER	CAMERA MALFUNCTION	TITLED PROPERLY
T-153	MX578/2.44	548TH	15	YES	NO
T-154	MX578/2.49	548TH	15	NO	YES
T-155	G-4 /1.44	12RTS	15	NO	YES
MISSION	TOTAL FRAMES	PERCENT CLOUD COVER	IMAGE QUALITY	PI INTERP.	
T-145	1315	10	FAIR	GOOD	
T-147	912	10	FAIR	GOOD	
T-148	916	35	FAIR	GOOD	
T-151	1306	15	FAIR	GOOD	
T-152	1824	10	GOOD	EXCELLENT	
T-153	980	85	FAIR	GOOD	
T-154	650	65	FAIR	GOOD	
T-155	857	40	FAIR	FAIR	

ALL MISSIONS USED:

A. FILM TYPE 3404

B. EXPOSURE - AUTOMATIC EXPOSURE CONTROL
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C. STEREO COVERAGE MODE.

3. ORIGINAL NEGATIVE:

A. EXPOSURE: ALL MISSIONS, EXCEPT T-155 WERE SLIGHTLY
OVEREXPOSED BY APPROXIMATELY 0.1 LOG EXPOSURE.

B. DENSITY AND CONTRAST: ON ALL MISSIONS EXCEPT T-155 THE
DENSITY IS SLIGHTLY HEAVY AND THE CONTRAST IS HIGH. SEE PARA
6B FOR MISSION T-155 COMMENTS.

C. IMAGED DEGRADATIONS: A CAMERA MALFUNCTION OCCURRED AT
LEAST TWENTY-FIVE TIMES ON MISSIONS T-147, T-148, T-151 AND
T-153. EACH TIME THE MALFUNCTION OCCURS TWO FRAMES ARE AFFECTED.
THE IMAGE QUALITY OF THESE FRAMES IS NOT DEGRADED EXCEPT AT THE
ENDS OF THE FRAME WHERE OVERLAPPING MAY OCCUR. A DETAILED
DESCRIPTION OF THIS MALFUNCTION IS REPORTED IN THE EVALUATION OF
MISSION T-138, NPIC MESSAGE 7552, 8 DEC 69.

D. LIGHT LEAKS:

(1) MINOR PLUS DENSITY FOG PATTERNS, TYPICAL OF THIS

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SYSTEM, ARE PRESENT ON ALL MISSIONS. THESE FOG PATTERNS
DO NOT AFFECT THE OVERALL QUALITY OF THE MISSIONS.

(2) A LIGHT LEAK AROUND A SPOOL FLANGE CAUSED A BLOCK
OF FOG FOR APPROXIMATELY TEN WRAPS ON MISSION T-154.

(3) NUMEROUS PROCESSING STAINS WERE NOTED ON MISSION
T-145.

(4) CAMERA START-UP AND SHUT-DOWN ASSOCIATED FOG
PATTERNS WERE NOTED ON EACH MISSION.

4. PHYSICAL DEGRADATIONS: NUMEROUS SCRATCHES AND HANDLING
MARKS ARE APPARENT ON ALL MISSIONS. ULTRASONIC SPLICES ARE LOCATED

ON:	<u>MISSION</u>	<u>FRAME</u>
	T-148	486
	T-151	674
	T-152	432
	T-153	718
	T-155	262

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5. DATA RECORDING EQUIPMENT: FUNCTIONED PROPERLY ON ALL MISSIONS EXCEPT DURING THE CAMERA MALFUNCTION. THE WRITE-IN CARD ON ALL MISSIONS IS OVEREXPOSED AND IS DIFFICULT TO READ.

6. OTHER:

A. THE FILM WAS PROPERLY TITLED EXCEPT ON THOSE MISSIONS WHERE A CAMERA MALFUNCTION OCCURRED. AFTER THE INITIAL MALFUNCTION ON EACH MISSION, THE REMAINDER OF THE MISSION IS NOT TITLED IN ACCORDANCE WITH ESTABLISHED TITLING PROCEDURES. THE MALFUNCTION IS NOT OF A NATURE THAT WOULD WARRANT THE DISCONTINUATION OF PROPER TITLING PROCEDURES.

B. MISSION T-155 WAS PROCESSED BY THE 12TH RTS IN G-4 CHEMISTRY, A LOW GAMMA DEVELOPER. THE MATERIAL WAS UNDEREXPOSED FOR THIS FILM/DEVELOPER COMBINATION, AS WAS EVIDENCED BY THE 0.20 D/MIN AND 0.50 D/MAX AND THE SLOWER EFFECTIVE FILM SPEED, AEI, OF 2.34. THE DENSITY AND CONTRAST WERE BOTH VERY LOW.

7. POSITIVES: ADEQUATE FOR INTERPRETATION PURPOSES.

END OF MESSAGE
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